

FOLIO

THE UNIVERSITY OF ALBERTA STAFF BULLETIN

EDMONTON, ALBERTA

JANUARY 8, 1976

ANOTHER VIEW OF CHILD CARE

An exchange program with the USSR, which was sponsored by the Department of External Affairs and handled by Canada Council, enabled J.P. Das, Professor of Educational Psychology, to visit the Institute of Defectology in Moscow, the Faculty of Psychology at Moscow State University, and the Laboratory for Preschool Development in Leningrad. As head of the Centre for the Study of Mental Retardation at this University, Dr. Das was most interested in the work being done in the USSR with mentally retarded children and adults who have symptoms of retardation due to brain damage.

At the Institute of Defectology, more than one hundred scientists are concerned with the growth, upbringing, and education of exceptional children. This group of children includes the mentally retarded, the learning disabled, borderline retarded cases, children with visual defects and blindness, those who are hard of hearing or deaf, children who have motor problems including cerebral palsy, and those with speech problems.

The incidence of mental retardation in the Soviet Union is slightly lower than that in other countries, and it is presumed that this situation exists because of the comprehensive prenatal and postnatal care given to the mother and child. As soon as a woman becomes pregnant, she is registered in a special clinic for pregnant women. During the first half of her pregnancy, she must go to the clinic once a month, and, during the second half, twice a month. The visits to the clinic are obligatory in the sense that, if the woman misses an appointment, the clinic reminds her by telephoning or by sending a letter. Because of such screening, prenatal complications such as diet inadequacy are detected and treated, and the delivery becomes less difficult. After the birth, the mother and child stay in the hospital for eight days; a visiting nurse sees the mother and child on the day they arrive home. On the second or third day the pediatrician visits the home, and, after the first week, a whole team of specialists, including psychologists, see the mother and child in the polyclinic. During the first year of the child's life there are eighteen obligatory visits to the polyclinic; in the second year there are ten obligatory visits. When the child reaches the age of three or four, all of the specialists see the child again.



If they observe any indications of mental or motor maldevelopment, the child is referred to a special neuropsychological polyclinic.

The last comprehensive observation is made between the ages of six and seven, since school entrance is at age seven. At that time, if visual or auditory defects are observed, the child is sent to a selection commission for placement. Development of speech, however, is the main consideration for sending the child to a special school. The retarded child is spotted at the age of three and four and is sent to a kindergarten for the retarded. The mildly retarded child, on completing kindergarten, is sent to normal school. If he cannot

cope with school in the first year, he is sent to the selection commission for placement. He usually fails the first year, but it is important that the teacher evaluate his educational performance since this evaluation carries first priority in considering further placement of the child.

After the October revolution of 1971, it was found that large numbers of children were being classified as mentally retarded on the basis of I.Q. tests that were not standardized in the Soviet Union. The government, at that time, felt that this was unjust, since the majority of these children were from the working class or the lower socio-economic

levels. Instead, the government set up a selection commission which could perform diagnosis as a team and recommend appropriate placement. The selection commission is comprised of a psychoneurologist, a pediatrician, a medical doctor specializing in neurology, and an experienced teacher of the retarded. They can also refer the children to specialists who are not included in the commission. The team approach is considered to be much more superior to screening by I.Q. since the team has the entire history of the child from prenatal stage to the present. The team considers the development of the child on the basis of the case history and the tests that it may give to the child. Dr. Das's psychologist colleagues in Moscow, who are involved in giving tests and evaluating the growth of children, told him that they do use many of the items contained in standardized I.Q. tests, but these items are used to give the team direction for further examination of the child's potentialities. The I.Q. test is the beginning but not the end of diagnosis, and further diagnosis is always based on a rationale or a hypothesis to spare the child from taking hours of unnecessary tests.

While talking with his Soviet counterparts, Dr. Das realized that the role of the psychologist is an important one, both in research and in the clinical setting. At the Institute of Defectology or in a hospital for rehabilitation, he found research psychologists doing basic work and relating their findings to the practitioners who might be medical doctors, teachers, or speech therapists. In

turn, the practitioners confront the psychologist with problems that they cannot solve in their clinics. In some research setups, he found an upstairs/downstairs arrangement. The laboratory of the psychologist may be located on the top of a kindergarten or on the top of a rehabilitation ward in a hospital.

Team work is emphasized to a great degree. It is not uncommon to find a neurologist, a psychiatrist, an x-ray specialist, and a clinical psychologist at a case conference trying to determine the location of a brain tumor in a patient which they have examined separately. Usually a clinical psychologist who wants to work with brain-damaged patients or defective children not only has to take courses in physiology and anatomy, but also in neurology, pharmacology, and psychiatry. He does the same practical work in some of these areas as the medical students. Similarly, the neurologist who is in the team with the psychologist is exposed to psychological techniques for evaluating mental functions, including personality tests. Because of the broad base of training received, easy communication between specialists doesn't happen by chance—it is deliberately planned.

Dr. Das found some aspects of Soviet study which could be emulated by Canadian psychologists. Obviously, the comprehensive and broad child care from the prenatal stage is significant. The role of basic research in applied settings and the importance of team work are the more important aspects of the Soviet program which ensure that this comprehensive care is of continuing high standards.

actual number of sexual assaults "it would be more reasonable to multiply that figure by ten," he feels, in view of the numbers of assaults which do not result in pregnancy and the emotional trauma associated with rape which discourages victims from seeking help they are not sure is there. "Those 20 or 25 represent only the tip of the iceberg," suggests Dr. Cookson. In Edmonton, which has the highest per capita incidence of reported rape in Canada, even this may be an understatement.

And what of those instances of sexual assault which may be just as damaging emotionally but which fall outside the legal definition of rape: indecent exposure, attempted rape, unwelcome homosexual encounters, verbal abuse? Apart from personal knowledge of these incidents, there is no store of information available which would assist any efforts at preventing them.

If sexual assault is a problem, the limited availability of facilities to provide help and understanding for assault victims represents an equally pressing problem. Student Help, a volunteer service under the aegis of the Students' Union, is able to offer limited assistance, as is the University Health Service. The latter, with five senior nurses specially trained to deal with the emotional aftermath of sexual assaults and related problems, as well as its staff of physicians and the nurses in residence (who are part of the service), has what could amount to the nucleus of an excellent rape crisis centre, but unfortunately the service is not available on a 24-hour basis. While more than willing to offer all the help possible from the Health Service, Dr. Cookson readily agrees that "the solution is not in the existing set-up on campus."

The problem of sexual assault is complex and not susceptible to such facile solutions as increased street lighting or restrictions on residences. Neither the provision of immediate and long-term aid for victims nor preventive measures can be undertaken by the University without adequate information on the nature and extent of the problem.

For this reason, General Faculties Council, at its November 3 meeting, requested that the Academic Women's Association (AWA), which is understandably concerned in this area, conduct an investigation into the problem of sexual assault on campus and bring forward recommendations that might assist the University in dealing with the problem. A committee struck by the AWA, after a survey of what is known about sexual assault on campus and services available to victims, has prepared several preliminary recommendations. These draft recommendations include such items as the provision of emergency

SEXUAL ASSAULT ON CAMPUS: THE EXTENT OF THE PROBLEM

To many people, students and staff alike, the campus feels like home: it feels safe and comfortable after time, unlike other parts of town which possibly feel alien by comparison. To those who live in residence or in the many apartment blocks adjacent to the University, it literally is home. But, like any community of its size and mix, it is not as safe as it seems, and where sexual assault is concerned, there is a definite, recognizable problem.

"There is no doubt the problem exists," says F.B. Cookson, Director of University Health Service, although he hastens to add that he doubts that the campus is "populated by mad rapists." Since September 1974 the number of cases of sexual assaults on females, determined from the records of University Health Service, has been between 20 and 25. But in all of these cases, Dr. Cookson points out, there was concern of a suspected or actual pregnancy as a result. To estimate the

FOLIO

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telephones throughout the campus, foot patrols inside and outside buildings during the evening and weekend hours to act as deterrents to loiterers, and a "what to do if . . ." list which could be widely posted.

However, the group feels it cannot make its final recommendations without a more adequate information base. "Perhaps because of the embarrassment of the situation, perhaps because of a feeling of hopelessness that anyone would ever want to listen sympathetically, much less help, most victims never report that they have been assaulted," says Jean Lauber, President of the Academic Women's Association and a member of the committee.

In an effort to obtain information about sexual assaults and related incidents that have occurred over the past several years on campus, the Association has set up an electronic secretary (telephone 432-3225) that will record cases on a 24-hour basis, initially for one month, beginning January 10. If the response warrants it, use of the electronic secretary will be extended to the end of term. The accompanying questions should act as a guide to callers.

"We want to hear not only from rape victims," Dr. Lauber emphasizes, "but from victims of all similar kinds of threatening or traumatic incidents, attempted sexual assault, indecent exposure, verbal abuse, homosexual encounters, from men as well as women."

"We also want to stress that this is a completely anonymous survey. No names will be asked and no names used," she stated. "We feel that the impersonality of a tape recording may reduce any feelings of timidity the callers may have and therefore give us a better sampling and more complete information than we might otherwise receive." Those who would prefer to talk to a person rather than a tape recorder should simply leave information about how they may be contacted; others who prefer to communicate their information on paper may write to Dr. Lauber, President of the Academic Women's Association, in care of the Department of Zoology.

In case of emergency . . .

The AWA information line is not an emergency or rape crisis line. It is merely there to gather information which may ultimately prevent other sexual assaults from happening.

If there has been any physical injury, victims of sexual assaults should go or be taken immediately to the University Hospital Emergency unit.

University Health Service (telephone 439-4991, 8 a.m. to 10 p.m.), residence nurses, and Student Help (telephone 432-4266) are all prepared to give sympathetic assistance to assault victims.

DON'T KEEP IT TO YOURSELF

The only way the Committee on Sexual Assault can obtain information about the kinds and extent of problems faced on campus is by hearing about *your* experiences. The survey is completely anonymous—we don't want to know your name, only what happened and related details that might help protect someone else from this kind of upsetting incident.

Please help us by dialing 432-3225 after January 10 and giving as much information as you can, using these questions as a guide. Or, if you prefer to speak to a person rather than a tape recorder, please let us know how we can get in touch with you. If you would rather communicate in writing, please write to Jean Lauber, in care of the Department of Zoology.

What we would like to know

. . . about yourself.

Are you a student? academic staff? non-academic staff?

Age?

. . . about what happened.

When did the incident take place? (time of day, month, year)

Where did it happen?

Briefly, what happened?

Did you know the assailant(s)?

What was your immediate reaction? (fight back, scream, run, try to reason with the assailant)

Was the incident connected with any other crime(s)? (robbery, armed assault, etc.)

Were there any effects from the assault? (pregnancy; bruises or other injury; venereal disease; anxiety/depression; other)

Did you seek help from

— police?

— Campus Security Force?

— Student Help?

— Student Counselling Services?

— University Health Service?

— other physician?

— friends?

— anyone else?

What kind of assistance did you receive?

Was it satisfactory?

If you did not seek assistance, why not?

Are there any measures which could have been taken by the University or others which you feel might have prevented this incident from happening or might have helped you?

VISITORS

■ Peter G. Welling, Faculty of Pharmacy, University of Wisconsin, Madison, Wisconsin, presented a seminar entitled "Drug Dosage Adjustment in Chronic Uremia" in the Faculty of Pharmacy and Pharmaceutical Sciences on December 12.

NOTICES

PROPHYLAXIS

The School of Dental Hygiene is accepting patients, both children and adults, for prophylaxis (cleaning of teeth). For more information, please phone 432-4151.

SWIMMING LESSONS

Swimming lessons for all ages and levels are available at the University Pool. Owing partly to the mail strike and the cold weather, the program is not filled yet. Lessons begin the week of January 5; late registrations will be taken in person from January 5 to 16 each weekday from 12 noon to 1 p.m. at the Pool Office. Drop in and pick up a brochure, or phone 432-3570 for class times and further information.

CREDIT UNION

The University of Alberta Credit Union invites University staff members to drop into WB10 Chemistry Building or to phone 432-3256 for information about the services provided.

PSYCHOLOGY SEMINAR

W.P. Alston of Douglass College at Rutgers University will present a Seminar-in-the-Round entitled "Conceptual frameworks for psychology" on Monday, January 12, at 2 p.m. in 14-6 Tory Building. The seminar is sponsored by the Centre for Advanced Studies in Theoretical Psychology.

YOGA CLASSES

The University Yoga Fitness Centre will organize a Hatha Yoga course emphasizing mental relaxation, figure, and physical fitness. Classes will be held at the University on a once-a-week basis. The eight-week course begins on January 28. Preference in registration will be given to students. For more information, phone H. Dhanaraj at 439-7897 evenings or Judith Spencer at 433-4004 evenings.

BOOSTER SERVICE

Holders of University parking permits are reminded that a battery boosting service is available from 3 p.m. to 6 p.m. Monday through Friday (holidays excepted) whenever the temperature drops to -23 degrees Celsius or colder. Please call the Department of Physical Plant at 432-4855 for this service.

THIS WEEK AND NEXT

Listings must reach the Editor by 9 a.m. the Friday prior to publication. Written notification is preferred.

8 JANUARY, THURSDAY

Student Cinema

7 p.m. *Dr. Zhivago* (United States, 1965). Directed by David Lean, starring Omar Sharif, Alec Guinness, Julie Christie, and Ralph Richardson. Students' Union Theatre. Tickets \$1 advance from the Students' Union Box Office in HUB, or \$1.50 at the door.

9 JANUARY, FRIDAY

Faculty Club

Downstairs. "Cabaret Canton." Stir-fried shrimp and peas, barbecued spareribs, and rice. \$4.25. Entertainment: Chinese music. *Upstairs.* Regular dinner menu. Reservations required.

Basketball

6:30 p.m. and 8:30 p.m. Pandas and Golden Bears versus the University of Victoria. Main Gymnasium.

Student Cinema

7 p.m. and 9:30 p.m. *French Connection II* (France, 1975). Directed by John Frankenheimer and starring Gene Hackman. Students' Union Theatre. Tickets \$1 advance or \$1.50 at the door.

10 JANUARY, SATURDAY

Gymnastics

1 p.m. University of Alberta Gymnastics Invitational. Main Gymnasium.

Basketball

6:30 p.m. and 8:30 p.m. Pandas and Golden Bears versus the University of Victoria. Main Gymnasium.

Faculty Club

Downstairs. "Le Club." Chicken Kiev, baked stuffed potato, waldorf salad, and rum orange. \$5. *Upstairs.* Regular dinner menu. Reservations required. Entertainment: Gordon Schmidt Band.

University Concert Hall

And every Saturday. 6:45 p.m. A radio program of music from the University of Alberta on CKUA AM and FM.

Student Cinema

7 p.m. and 9:30 p.m. *French Connection II* (France, 1975). Starring Gene Hackman. Students' Union Theatre. Tickets \$1 advance or \$1.50 at the door.

Edmonton Symphony Orchestra

8:30 p.m. The ESO conducted by Pierre Hétu

and featuring Robin Harrison, pianist, performs works by Chopin, Haydn, and Jacques Ibert. Jubilee Auditorium. Tickets available from the Bay Box Office and the Symphony Box Office, phone 433-2020.

11 JANUARY, SUNDAY

Edmonton Symphony Orchestra

2:30 p.m. The ESO, conducted by Pierre Hétu and featuring pianist Robin Harrison, performs works by Chopin, Haydn, and Ibert. Jubilee Auditorium. Tickets available from the Bay Box Office and the Symphony Box Office, phone 433-2020.

'In Touch with U'

And every Sunday. 3 p.m. A program to introduce the University to the community at large. CITV channel 13, cable 8.

Student Cinema

7 p.m. and 9:30 p.m. *The Night Porter* (Italy, 1974). Directed by Liliana Cavani, starring Dirk Bogarde and Charlotte Rampling. Students' Union Theatre. Tickets \$1 advance or \$1.50 at the door.

12 JANUARY, MONDAY

Film

12 noon. Part 9 of Kenneth Clark's Civilisation Series, *Bach, Handel, Mozart, The Rococo*. AV L-1 Humanities Centre. Repeat showing at 3 p.m. in L-3. Admission free.

Edmonton Overture Concert Association

8:15 p.m. The Association presents Betty Allen, mezzo soprano. Jubilee Auditorium. Tickets available from the Bay Box Office, phone 424-0121.

14 JANUARY, WEDNESDAY

Plant Science Seminar

1 p.m. "Diallel analysis of some morpho-physiological characters of bromegrass" by W.K. Tan. 490 Agriculture Building.

Botany Seminar

4:30 p.m. "Isolation and response to temperature of five diatom species" by David Beliveau. CW230 Biological Sciences Building.

Student Cinema

7 p.m. and 9:30 p.m. *Scenes from a Marriage* (Sweden, 1974). Directed by Ingmar Bergman, starring Liv Ullmann and Erland Josephson. Students' Union Theatre. Tickets \$1 advance or \$1.50 at the door.

Faculty Club

Upstairs. "Wednesday at Eight: Two Plus Two Equals One. The University of Alberta String Quartet." Thomas Rolston, Lawrence Fisher, Michael Bowie, and Claude Kenneson demonstrate how each member of the quartet achieves unity with the other members in the

first part of the evening's performance. In the second part, the quartet shows how a work is produced in its entirety. Hot hors d'oeuvres and wine by the glass will be served at intermission.

16 JANUARY, FRIDAY

Faculty Club

Downstairs. "Maggie and Jiggs Night." Corned beef and cabbage, mashed potatoes, green salad, and apple Betty. \$3.95. Entertainment: Juke box selections.

Upstairs. Lobster \$11.50. Also regular dinner menu. Reservations required.

Student Cinema

7 p.m. and 9:30 p.m. *Mandingo* (United States, 1975). Starring James Mason, Susan George, and Perry King. Students' Union Theatre. Tickets \$1 advance or \$1.50 at the door.

Concert

8 p.m. Henry Mancini performs at the Jubilee Auditorium. Tickets available from the Bay Box Office, phone 424-0121.

17 JANUARY, SATURDAY

Wrestling

10 a.m. University of Alberta Invitational Wrestling Tournament. Main Gymnasium.

Faculty Club

Downstairs. Roast Beef, mashed potatoes, country gravy, and peach pie. \$4.50. *Upstairs.* "Malanka Celebration." Apertif, dinner, wine, and dancing. \$17.50 per person. Entertainment: The Echoes. No regular dining this evening. Limit of six persons per club member.

Student Cinema

7 p.m. and 9:30 p.m. *Mandingo* (United States, 1975). Students' Union Theatre. Tickets \$1 advance or \$1.50 at the door.

EXHIBITIONS AND PLAYS

Citadel Theatre

Until 10 January. *Joseph and the Amazing Technicolor Dreamcoat*, a musical by Tim Rice and Andrew Lloyd Webber. Curtain times Tuesday through Saturday at 8:30 p.m.; Sunday performances at 2:30 p.m. and 7:30 p.m. Tickets available from the Citadel Box Office, phone 424-2828.

Edmonton Art Gallery

Until 18 January. "The Collective Unconscious," a display of works by key figures in the North American avant-garde of the 1940s and 50s. *Until 15 January.* "William Ronald," a display of works by the Canadian abstract expressionist. *Until 15 January.* "Towards a New Theatre:

Edward Gordon Craig and *Hamlet*." This exhibit features the most famous and representative design project of an artist who profoundly influenced theatre design.

Until 20 January. "Shout in Silence: Visual Arts and the Deaf," a special display of paintings and graphics by deaf and hard-of-hearing children and adults.

Until 18 January. "Father and Son," an exhibit of watercolors by William Christian Symons and his son, R.D. Symons.

Provincial Museum

Until 30 January. "Peter Karsten and Charles Lacy: Alberta Nature Art," an exhibit featuring these two Alberta artists. Feature Gallery 1.

Until 15 February. "Winter Outdoors—Yesterday and Tomorrow," a feature exhibit emphasizing the many winter activities available in Alberta. Feature Gallery 2.

Continuing. "Documentary Heritage," a long-term exhibition displaying valuable manuscripts and documents in the Provincial Archives of Alberta. Archives Gallery.

U of A Camera Club

15 and 16 January. A slide and print show of black-and-white and color photography by members of the Club. Judging will take place. The display is open from 10 a.m. to 7 p.m. SUB Art Gallery, Students' Union Building.

Northern Light Theatre

Until 23 January. A special lunch-hour dance program performed by the Alberta Ballet Company. Monday through Friday at 12:10 p.m. with extra performances on Thursday and Friday at 1:10 p.m. Edmonton Art Gallery Theatre. Admission \$1.50.

Citadel Too

Opening 12 January. *Hosana* by Michel Tremblay; a play about the relationship between two transvestites. Monday through Saturday at 8 p.m. 10018 102 Street. Admission \$3 regular, \$2 for students. Tickets available from the Citadel Box Office, phone 424-2828.

Theatre Francais d'Edmonton

16, 17, 18 et 23, 24, 25 janvier. *En pièces détachées* et *La Duchesse de Langeais* de Michel Tremblay. Collège Universitaire Saint-Jean, 8406 91e rue. Pour renseignements et billets: 469-0829.

NON-CREDIT COURSES

SHORT COURSE ON THE INCOME TAX ACT

This is an overview for the layman of some of the common problems of the Act which came into effect in January, 1972. The topics discussed will include basic rules for computation of income tax, taxation of individuals,

taxation of business and property income, taxation of capital gains and what gains are taxed, taxation of other sources of income and special cases, corporations and shareholders. The emphasis will be planned to meet the needs of the participants. *Instructors:* E.T. (Terry) Mowbrey and G.P. (Gary) Coskey. *Dates:* 6 Tuesdays, commencing February 3, 1976. *Time:* 7-9 p.m. *Fee:* \$35 including materials. *Registration information:* The University reserves the right to restrict registration or to cancel any class for which there is insufficient registration. For further information and registration forms please contact the Faculty of Extension, 432-5066 or 432-5067. No cancellations will be accepted after January 29, 1976; substitutions only.

WILDLIFE SERIES: THE TIMBER WOLF

The Faculty of Extension is offering a short evening program designed to further understanding of the life and behavior of the timber wolf. The course aims to enable students to separate fact from fiction as regards the wolf, and will deal with taxonomy and physical description of wolves, with distribution and abundance of wolves, with seasonal activity patterns, with food habits and territoriality. Further discussion will take up the role of the wolves in national park ecosystems as well as dealing with the problems of management and conservation of wolves.

The instructor is Lu Carbyn, a research scientist with the Canadian Wildlife Service.

The course begins on January 12 and runs to February 2, with classes on Monday nights from 7:30 p.m. to 9:30 p.m. The registration fee is \$15. Registration forms and further information can be obtained from the Faculty of Extension, phone 432-3035 or 432-3116.

NEGOTIATING AND ADMINISTERING COLLECTIVE AGREEMENTS

The negotiation of a collective agreement and the day-to-day administration of that agreement are both essential components of industrial relations. This course will aid in preparing negotiating personnel for collective bargaining and will assist all those involved in administering a collective agreement. Topics included in the program will be: The Legal Framework, The Parties, Collective Agreement Contents, Labour Economics, Rules and Discipline, Grievances and Arbitration, Preparing for Negotiation, Bargaining, Settlement, Conciliation, Disputes. *Instructor:* Peter Schopflocher.

Dates: 10 Monday evening sessions commencing January 19, 7:00-9:30 p.m. *Fee:* \$75 including materials. *Registration:* Registration forms can be obtained from The Faculty of Extension. *Information:* Please telephone 432-5066 or 432-5067. The University reserves the right to restrict registration in any class or to cancel any class

for which there is insufficient registration. *Registration deadline:* No cancellations will be accepted after January 14, 1976; substitutions only.

FIELD WORKSHOP: BRITISH MESOZOIC GEOLOGY RELATED TO NORTH SEA GAS AND OIL

A two-week geological field trip to England and Scotland has been scheduled for May 28 through June 11 by the University Faculty of Extension.

Prominent British geologists will be lecturing to field trip participants on on-shore geology, off-shore geology and continental shelf geophysics in relation to North Sea oil and gas. The field trip group will visit the Weymouth area, the classical sedimentary section of the south coast of England (Triassic-Cretaceous), the Oxford area (Middle Jurassic facies changes), and the Durham coast (Jurassic facies and Permian [Zechstein] on-shore section). Finally, the group will investigate the Golspie area in northeast Scotland, these being the only on-shore exposures of the oil bearing Jurassic of the northern North Sea.

R. St. J. Lambert, Chairman of Geology, will be the organizer and guide for the trip. Other lecturers will include R. Selley, Imperial College, London; P. Allen and B. Sellwood, University of Reading; W.S. McKerrow and W.J. Kennedy, Oxford University; and M.H.P. Bott and H. Jenkyns, Durham University.

The packaged trip consisting of tuition, field guide and notes, air fare from Edmonton to London return, busing around Great Britain, air fare from Inverness to London, and hotels (on bed and breakfast basis) is \$1,200. The fee does not include lunches or dinners. The full fee of \$1,200 is due on February 16, 1976.

Additional information is available by calling 432-5038 or 432-3037 in Edmonton or by Telexing 037-2979.

CONSTRUCTION CONTRACT ADMINISTRATION AND ARBITRATION OF DISPUTES

The University Faculty of Extension will be holding a two-day seminar on Construction Contract Administration and Arbitration of Disputes January 12 and 13.

James Antill, an Australian civil engineer and a Fellow of the Institute of Arbitration, London, will conduct the seminar which has been designed to help increase understanding of the technicalities of contract administration, particularly as it effects the economical operation of construction projects. In addition, the seminar will provide insight into the effectiveness of arbitration as an approach to settling contract disputes.

Mr. Antill has worked in various areas of engineering and construction and since 1958 has been active as a consultant, teacher, and author. At present, he is a Visiting Professor

of Civil Engineering, University of New South Wales. For a number of years he has taken a keen interest in the legal aspects of contractual disputes and has had wide experience as an arbitrator.

The seminar will emphasize discussion and practical applications of the theory presented to actual industry problems. Topics to be covered include prerequisites to contract; letting a contract; obligations of the owner and his engineer; site problems, administration contracts; obligations of the contractor; and arbitration.

Registrations are accepted in 228 Corbett Hall. The fee is \$110 including lunches, materials, and parking. The seminar is limited to 35 participants. Additional information is available by calling 432-3037.

COMMUNITIES AND THEIR DEVELOPMENT

Communities and Their Development, a University Faculty of Extension course, will begin January 19, for seven sessions.

The objective of the course is to provide professional staff of government and community organizations involved in social and community development programs with a theoretical and conceptual understanding of communities, community change, and community development. This course will provide background information which will enable community workers to use their personal skills and strategies for effecting community change and development more effectively.

A.S.A. Mohsen, Associate Professor of Sociology and Community Development, will conduct the course along with special guest resource persons.

Among the topics to be discussed are the concept of community, types of communities, human ecology, community action and leadership, theories of development and change, concept of community development, traditional and radical approaches to community development, and the current status of community development in Canada.

As this program will be concerned with theories and conceptual models for developing communities, registrants should be prepared to do some serious study and reading.

Registrations are accepted in 228 Corbett Hall. The fee is \$35 and the registration deadline is January 9. Additional information is available by calling 432-3035.

ENGLISH AS A SECOND LANGUAGE PROGRAM

English Language Program winter classes in intermediate and advanced English as a second language will begin January 26 through the University Faculty of Extension.

Classes will be limited to 15 students and instruction will be largely informal, each student having ample opportunity for participation and individual attention. Work on pro-

nunciation and idiom drills will be done in a language laboratory.

Courses include Levels 1A, 1, 2, 3, 4 Writing, 4 Conversation, 5 Advanced Writing, 5 Advanced Conversation, and Pronunciation. The Pronunciation course is not a course in conversation, but is designed to help the student produce the sounds of English correctly.

The regular courses will meet twice a week in the evenings for two-hour sessions, for a total of 40 hours of instruction. The fee for each course is \$65 which includes textbooks. The Pronunciation course will meet twice a week for one and one-half hour sessions, for a total of 30 hours of instruction. The fee is \$40 which includes the textbook.

A placement test is required for all courses in English as a second language to ensure that students are in the levels which will benefit them most. Placement tests are given on Saturday, January 10, at 9:30 a.m.; Thursday, January 15, at 7 p.m.; Saturday, January 17, at 9:30 a.m.; and Tuesday, January 20, at 7 p.m. The fee for the test is \$3 and is to be paid in 228 Corbett Hall, before the test is taken. The tests will be held in Corbett Hall and will take two hours to complete.

A special course, Technical Report Writing, will be offered on Tuesdays from 7:30 to 9:30 p.m. beginning January 27. This course is designed to assist in the preparation, organization, and presentation of material in report form. The fee for this course is \$45. No placement test is required.

Brochures outlining the content of each course are available by calling 432-1497.

NACE BASIC CORROSION COURSE

An intensive five-day NACE Basic Corrosion Course will be held by the University Faculty of Extension from January 12 to 16.

The course has been designed to give a broad understanding and working knowledge of the full range of corrosion processes and prevention methods. It is intended for technologists, professional engineers, technicians, and a variety of other people engaged in planning, operating, and management functions and those whose work is effected by corrosion problems.

Prior study of chemistry and/or physics helps a student, but is not essential. Certificates of completion will be granted if a passing grade is obtained. The course will involve lecture sessions which will follow the NACE Basic Corrosion textbook, a copy of which will be supplied to each registrant.

Brochures listing the chapter headings and the instructors are available by calling the Faculty of Extension at 432-3037.

The registration fee is \$300 which includes the text, all required materials, lunch each day except Friday, final exam for certificate, and parking. The course is limited to 25

participants. Registrations are accepted in 228 Corbett Hall.

COMPUTING SERVICES

NON-CREDIT COURSE

Computing Services is again offering a series of non-credit courses. These courses are open to all interested persons, but preference will be given to staff and students of the University.

Registration for courses is taken at the Computing Services General Office, 352 General Services Building and must be completed prior to the first class. If you register for a course and cannot attend, please let the General Office know at least a day ahead so that someone else can have the class space. Please note that there is usually a nominal fee of \$10 (\$20 for commercial clients) which must be paid before registration is complete. For further information regarding these courses, contact the Department of Computing Services' General Office, 352 General Services Building, 432-1261, or the Information Co-ordinator, 319A General Services Building, 432-1463.

USE OF TERMINALS (Two 2 hour labs, 4 sections)

Description: Introduction to the use of the computing system (MTS) at the University of Alberta using computer terminals. Includes practice in procedures for signing on to the system, information storage and manipulation. *Dates:* 2-4 p.m. Tuesday and Thursday, January 6 and 8 (Section I); 2-4 p.m. Tuesday and Thursday, February 17 and 19 (Section II); 2-4 p.m. Monday and Tuesday, April 12 and 13 (Section III); 2-4 p.m. Tuesday and Thursday, May 18 and 20 (Section IV). *Place:* 351 General Services Building. *Fee:* Free. *Class Limit:* 15. *Instructors:* V. Arlette and D. Neumann. *Prerequisites:* None.

INTRODUCTION TO TEXT PROCESSING

Description: Use of the programs EDIT and *FMT in the editing of text and formatting of manuscripts. This course could be of use to students and members of staff (both non-academic and academic) wishing to use the MTS computing system to edit and produce papers, articles, theses, books, and other documents. Adequate computer time will be provided for students to do meaningful exercises. *Dates:* 2-4 p.m. Tuesdays and Thursdays, January 20 to February 3 (Section I); 10 a.m.-12 noon Monday and Wednesday, March 1 to 15 (Section II); 2-4 p.m. Monday to Friday, May 3 to 7 (Section III). *Place:* 811 General Services Building (Section I); 811 General Services Building (Section II); 553 General Services Building (Section III). *Fee:* \$10. *Minimum enrolment:* 10. *Class limit:* 15. *Instructor:* Donna Neumann. *Prerequisites:* The 'Use of Terminals' course. *Text:* "Manuscript Production Handbook" by Christie and Semchuk.

INTRODUCTION TO COMPUTING VIA FORTRAN IV

Description: This course is intended as a non-mathematical introduction to computer programming and related concepts. Students will be given some computer funds and will write programs to solve a series of progressively more difficult assigned problems. They will also have the opportunity to work on one problem of their own choosing (provided that it is approved in advance by the instructor). Although students will mainly utilize the Student Oriented Batch Facility for solving their problems, they will also use some of the resources of the MTS system in both batch and terminal mode. *Dates:* Mondays, January 12 to March 22. *Time:* Lectures 3:30-5:30 p.m. Work Sessions/Labs 5:30-6:30 p.m. *Fee:* \$10 (includes computer time) \$20 for commercial organizations. *Minimum enrolment:* 8. *Class limit:* 40. *Instructor:* Vic Yanda. *Prerequisites:* Enjoyment of games. *Texts:* "FORTRAN IV" by Organick/Meissner, \$8.50, and "FORTRAN IV Language," International Business Machines, about \$3.50; both available from the University of Alberta Bookstore. *Place:* 511 General Services Building.

ADVANCED FORTRAN PROGRAMMING

Description: A Seminar-oriented course of interest to users familiar with the basics of the FORTRAN IV language. Subscripting, optimization, and some specialized topics will be discussed. Adequate computing time will be provided for assigned problems. *Dates:* Mondays and Wednesdays, January 19 to February 9. *Time:* 2-4 p.m. *Place:* 769 General Services Building. *Class Limit:* 40. *Minimum enrolment:* 15. *Fee:* \$10 (includes computing time). *Instructor:* Peter Johnston. *Prerequisites:* "Introduction to Computing through FORTRAN IV" or some FORTRAN experience. *References:* "FORTRAN IV with WATFOR and WATFIV" by Cress, Dirksen and Graham, and "FORTRAN IV" by Organick/Meissner.

INTRODUCTION TO COBOL PROGRAMMING

Description: COBOL is a commonly used business language which can be used in commercial applications. This course will teach the fundamentals of programming using COBOL, but requires no previous computing experience. *Dates:* Wednesdays and Fridays, March 3 to April 2. *Time:* 2-4 p.m. *Place:* 769 General Services Building. *Class limit:* 35. *Minimum enrolment:* 15. *Fee:* \$10 (includes computing time). *Instructor:* Lloyd White. *Text:* TBA. *References:* "COBOL Programming" by Nancy B. Stern and Robert A. Stern, "IBM American National Standards Cobol Language Reference Manual", and "IBM American National Standards Cobol Programmer's Guide".

GRANTING AGENCIES: APPLICATION DEADLINES

This list of deadline for submissions to granting agencies for research funds, exchange programs, and travel grants is published every month in *Folio*. In order to allow sufficient time for processing, all applications should reach the Research Grants and Contracts Office at least 10 days before the deadline date. Where other University resources are involved, the time requirement may be much longer than 10 days and such applications should therefore be submitted well in advance. An extra copy of the application should be provided for the Research Grants and Contracts Office.

Further information may be obtained by consulting the *Calendar of Granting Agencies for Research Funds, Exchange Programs, and Travel Grants*, which is available in the offices of Deans, Directors of Institutes, Centres, and Schools, and Department Chairmen, or by phoning the Research Grants and Contracts Office, 432-5360. NOTE: Although the Calendar is updated on a continuous basis, the following information could be subject to change without notice. If staff members have advanced information on forthcoming changes, the Research Grants and Contracts Office would appreciate being advised. *Code:* (R) Research funds; (E) Exchange programs; (T) Travel grants.

Calendar source number	Code	Granting agency	Deadline date
(20)	R	American Council of Learned Societies	Feb. 15 Sept. 30
(25)	R	American Philosophical Society	Feb. 20 Apr. 23 Aug. 20 Oct. 22 Dec. 24
(145)	R	Department of Labour—University Research Program	Feb. 15
(210)	R	Imperial Oil Limited	Feb. 15
(215)	R	International Development Research Centre—Research Associate Award	Feb. 28
(260)	R	Muscular Dystrophy Association of Canada	Feb. 28
(420)	R	US Department of Health, Education and Welfare—renewals	Feb. 1 June 1 Oct. 1 Mar. 1 July 1 Nov. 1
		new and supplemental	

POSITIONS VACANT

NON-ACADEMIC STAFF

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, third floor, SUB, telephone 432-5201. Please do not contact the department directly.

Clerk Xerox Operator (part-time) (\$275/month)—Educational Psychology
Sales Clerk I (\$505-\$576)—Bookstore
Clerk Typist II (\$505-\$627)—Educational Administration; Faculty of Education; Student Programs and Records

Clerk Steno II (\$527-\$653)—Economics; Division of Health Services Administration; Secondary Education; Extension; Business Administration and Commerce

Library Clerk II (\$527-\$653)—Boreal Institute
Accounts Clerk I (\$527-\$653)—Office of the Comptroller

Timetable Scheduling Clerk (\$576-\$713)—Office of the Registrar

Clerk Typist III (\$576-\$713)—English; Secretariat; President's Office

Clerk Steno III (term) (\$599-\$744)—Comparative Literature

Clerk Steno III (\$599-\$744)—Botany; Biochemistry; Linguistics; Agriculture and Forestry; Dean's Office; Educational Psychology (2 positions)

Data Entry Operator I (\$599-\$744)—Computing Services

Library Assistant I (\$627-\$779)—Geology

Medical Steno (\$653-\$814)—Provincial Laboratory (Edmonton)

Data Entry Operator II (\$653-\$814)—Rural Economy Secretary (\$683-\$853)—Computing Science

Stockman II (hourly) (\$4.50-\$5.62)—Central Stores
Typographical Trainee (\$505-\$627)—Duplicating

Technical Assistant (\$627-\$779)—Pharmacology
Accounts Clerk II (\$653-\$814)—Bookstore

Typographical Tradesman I (\$653-\$814)—Duplicating
Control Clerk (\$653-\$814)—Office of the Registrar

Technician I (\$713-\$891)—Pediatrics
Technician I-II (\$713-\$1,020)—Household Economics

Biochemical Technologist I (trust) (\$814-\$1,020)—Cancer Research Unit

Electronics Technician II (\$853-\$1,068)—Physical Education

Electronics Technician III (\$975-\$1,225)—Physics
Projects Estimator (\$1,118-\$1,406)—Physical Plant
Assistant to the Associate Registrar (\$1,118-\$1,406)—Office of the Registrar

The following is a list of currently available positions in the University Library. The bulletin board postings in the Library Personnel Office, 516 Cameron Library, should be consulted for further information as to position requirements and availability.

Library Clerk I (\$505-\$627)—Acquisitions
Library Clerk II (\$527-\$653)—Circulation
Library Clerk III (\$576-\$763)—Cataloguing
Library Assistant I (\$627-\$779)—Selections
Library Assistant III (\$814-\$1,020)—Cataloguing

OFF-CAMPUS POSITIONS

Scientists, Research Assistants and Technicians
University of The Witwatersrand
Nuclear Physics Research Unit

A number of vacancies of different seniority exist on the graduate and technical levels in the research disciplines pursued by the Nuclear Physics Research Unit. These are: The Nuclear Physics Group which is equipped with an EN Tandem van de Graaf

Dr. K.C. Dean Dr. H.D. Hunter
Dr. J.L.D. Williams Dr. B.L. Trump

Optometrists

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For appointment please call
439-2083

accelerator and a 2 MeV pressurized Cockcroft-Walton, positive ion accelerator; the Neutron Activation Analysis Group which is equipped with a neutron generator and has access to the 20 MW reactor of the South African Atomic Energy Board; the Environmental Isotopes Group which is equipped with facilities for doing stable isotope mass spectrographic, tritium carbon-14 analyses. Salary and level of appointment will depend upon qualifications and experience. Intending applicants should obtain the information sheet relating to this post. The policy of the University is not to discriminate in the appointment of staff or the selection of students on the grounds of sex, religion, race, color or national origin. Further particulars relating to this policy and the extent to which it can be implemented in practice, are included in the information sheet, which should be obtained from the Registrar, University of the Witwatersrand, Jan Smuts Avenue, Johannesburg, South Africa, with whom applications should be lodged not later than January 31, 1976.

Further information about the following positions may be obtained from Canada Manpower, fourth floor Students' Union Building, telephone 432-4291.

Computer Consultant
Boeing Computer Service
Vancouver

Qualifications: MA, MBA, or MSc in accounting or computing science, plus four years of post graduate experience. Must be familiar with mini-computer technology in commercial environment and large scale computers with data base management. Good communication skills for technical report writing.

Systems and Control Engineer
Imperial Oil

Sarnia, Montreal, or Strathcona Refinery

Duties: receiving general duty criteria, develops and designs control systems utilizing digital process control computers, to meet the objectives of operability, reliability, cost and schedule related to specific petroleum refinery and other related processes. Determines the type of equipment, prepares detailed

specifications, provides engineering follow-up with vendors and contractor, supervises installation, and assists in startup of these systems. Develops computer software systems for on-line supervisory control of process variables. Provides specialist consulting services to refinery operating staff regarding their process control computer systems and may diagnose and recommend means to resolve problems or to expand the control capabilities of existing systems.

Qualifications required: At least a Bachelor's degree in Chemical Engineering plus a Master's degree in Control Systems; two-three years related experience after Master's degree; eligibility for membership in APEO.

PERSONAL NOTICES

All advertisements must be received by 9 a.m. the Friday prior to publication. Rate is 15 cents per word for the first week, and 5 cents per word for subsequent weeks ordered before the next deadline. Minimum charge is \$1. Ads must be paid in advance. We regret that no ads can be taken over the telephone. For order forms or further information, telephone 432-4991.

Accommodation available

Thinking of selling your home? Today's real estate market fluctuates. Make sure you receive top value. Call a professional. Call Ross Lizotte, Buxton Real Estate Ltd., 436-1140, 426-5880, extension 990.

For rent—Lendrum, three-bedroom bungalow, 2 baths, 4 appliances, drapes; garage, landscaped, fenced yard. No pets. \$350. 429-3363 daytime.

Wanted—2 female boarders. Separate rooms. Direct bus to University. 435-5818 after five.

Accommodation wanted

Wanted to rent—Childless, petless, married couple, faculty members, seek apartment, small house, part of house, from January or February 1st, close to campus. Phone 432-5891 or 973-6787, L. Fedigan.

Automobiles and accessories

Motorcycles wanted. 550cc or smaller. Both dirt and street machines considered. I am paying cash for the right bike. 477-7322.

For sale—1973 stationwagon, well looked after. 469-6750 evenings.

For sale—1972 Toyota Corolla. Clean, sound, very economical car. 432-5216.

Goods and services

For sale—80 acres number 2 soil, 72 acres cultivated, treed ravine. Good building site. Power, gas, telephone by property. 35 minute drive S.E. Edmonton on highway. \$32,000, terms; clear title; principals only. Phone 1-878-3782, Hay Lakes.

Will type theses, manuscripts, etc. Experienced typist. Phone 459-5276.

Peking, Shanghai food. Delicious, inexpensive. Simple surroundings. Shanghai House, 6525 111 Street. 435-7622.

Typing, fast, accurate service. Phone Georgina Campbell, 489-4810 evenings.

Typing: theses, dissertations, books. Will pick up and deliver to campus. 467-6201.

Services available—Research and documentation, proof-reading, editing, re-writing, photodocumenting, for all kinds of technical and research papers. Field and literature research and photographic documenting; library of photos; biological, some historic, ethnologic subjects, etc. For information telephone: Dr. Jim R. Salt, 439-0964.

Wanted—second hand medium format camera, 2 1/4 x 2 1/4 negative size preferred. Phone 434-4941 after 6 p.m.

Interesting low-cost tours for university scholars. Also round-trip excursions: geographers, historians and men and women with interest in world religions. Kabul, Afghanistan, New Delhi. \$700 and up (cost of living less than \$5 a day). 429-1079 Indus Tours.

Plumbing—For estimates on basement bathrooms, repairs, gasfitting, etc. call 465-7079.

Space available in University Kindergarten (afternoon program) for children ages 4 1/2 to 5 1/2. For further information contact Colleen Kennedy 432-4132.

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Campus Branch, HUB Mall
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Faculty Club
The University of Alberta

Wednesday, 14
WEDNESDAY AT EIGHT

Upstairs:
TWO PLUS TWO
EQUALS ONE
The University of Alberta
String Quartet
Thomas Rolston, Lawrence Fisher,
Michael Bowie, Claude Kenneson

Friday, 16

Downstairs:
MAGGIE AND JIGGS NIGHT
\$3.95
MENU: Corned Beef and Cabbage,
Mashed Potatoes, Green Salad,
Apple Betty
ENTERTAINMENT: Juke Box Selections

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